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10/075,970	02/14/2002	Michael Helmus	01-202	9278
27774	7590	07/01/2009	EXAMINER	
MAYER & WILLIAMS PC			TYSON, MELANIE RUANO	
251 NORTH AVENUE WEST			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/075,970	Applicant(s) HELMUS, MICHAEL
	Examiner MELANIE TYSON	Art Unit 3773

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 April 2009.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,3,5-7,9-21 and 46-50 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1,3,5-7,9-21 and 46-50 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____
- 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

This action is in response to the amendments received 23 September 2008 and the applicant's arguments received on 17 April 2009. Claims 2, 4, 8, and 22-45 remain cancelled. New claims 49 and 50 were added 23 September 2008.

Response to Arguments

Applicant's arguments with respect to claims 1, 3, 5-7, 9-21, and 46-50 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 3, 5-7, 9-21, and 46-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoganson et al. (U.S. Publication No. 2003/0074049 A1) in view of Bolz (U.S. Patent No. 6,287,332 B1).

Hoganson discloses an implantable medical device (see entire document) comprising a biodegradable inner core (20; for example, see paragraph 66), thus becoming decreasingly rigid upon contact with bodily fluid, a biodegradable covering material (22) completely covering the inner core (for example, see Figures 2c and 6a, and paragraphs 70, 72, 78, and 85) and does not contain a therapeutic agent therein (an alternate embodiment may contain agents if desired), and one or more coating layers containing one or more therapeutic agents that may be provided on the inner core material and/or the covering material (for example, see paragraph 104), wherein the entire medical device is substantially biodegradable by the body (i.e., both the cover and inner core may be biodegradable). The covering material is formed of a hydrophobic surface erodable polymer (for example, polyorthoester; see Table 2), thus is capable of controlling the rate at which the inner core material becomes flexible upon contact with bodily fluids. Hoganson discloses the inner core may be metallic, an absorbable plastic, or any other suitable material which can provide the necessary mechanical requirements of a stent, but fails to disclose the biodegradable inner core material is specifically selected from biodegradable metallic and ceramic materials.

Bolz discloses an implantable medical device, such as a bioresorbable stent (see entire document). Bolz teaches constructing the bioresorbable stent of degradable metallic materials. Bolz further teaches that stents of degradable metallic material combine the advantageous mechanical properties of metal stents (such as elasticity, deformability, and stability by way of improving ductility, tensile strength, etc.; for example, see column 3, lines 11-35) with the bioresorbability of polymer-based stents

(for example, see column 2, lines 6-16). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form Hoganson's inner core from a biodegradable metallic material as taught by Bolz. Doing so would provide the mechanical advantages described above.

With further respect to claims 7, 10, 49, and 50, such materials are well known in the art and thus it would have been obvious to one having ordinary skill in the art at the time the invention was made to form the inner core and covering from the materials recited, it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

With further respect to claims 11-14, Hoganson discloses the inner core material comprises a plurality of interconnected elongated portions, either formed as an integral unit or assembled and connected to one another to form a hollow tubular framework. Hoganson fails to disclose the inner core is a monofilament core or a multi-filament core comprising woven or braided filaments. However, Hoganson discloses any conventional stent design or construction can be utilized as the stent body framework (for example, see paragraph 66). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the inner core comprising the configurations recited in the claims, since such configurations are well known in the art and the applicant has failed to disclose that such configurations provide an advantage, are used for a particular purpose, or solve a stated problem. It appears the invention

would perform equally well with any configuration, including the tubular structure disclosed by Hoganson.

Claim 15 is being treated as a product by process limitation, in that "the tubular structure is micromachined or laser-cut" refers to the process of forming the tubular structure and not to the final product created. As set forth in MPEP 2113, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product in the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777 F.2d 695,698,227 USPQ 964,966 (Fed. Cir. 1985). Examiner has evaluated the product claim without giving much weight to the method of its manufacture. Therefore, in this case, a stent as described above wherein the tubular body is formed by micromachining or laser-cutting is directed to the method of making the stent and not to the final product made. It appears that the product disclosed by Hoganson in view of Bolz would be the same as that claimed, especially since both applicant's product and the prior art product have the same final structure of a biodegradable inner tubular structure and a biodegradable covering material.

With further respect to claims 19-21, the device of Hoganson in view of Bolz stent is capable of being used as claimed if one so desires.

With further respect to claims 46 and 47, Bolz recognizes stents for some applications are only needed for a few months, thus a degradable metallic material that

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decomposes within a period of some months are advantageous (for example, see column 1, lines 44-47 and column 2, lines 21-23). Hoganson recognizes absorption rates of the polymeric covering materials may be adjusted between shorter periods and longer periods, depending on the particular application, by varying the materials, molecular weights, additives, processing, etc. (for example, see paragraph 72). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the covering material of the device such that the entire device has adequate rigidity from about three to about six months, or about one month to three months, and that is completely biodegradable within about six months to one year, or about three months to six months, following implantation, if the intended application required such characteristics, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Conclusion

Applicant's amendment received 23 September 2008 necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melanie Tyson whose telephone number is (571)272-9062. The examiner can normally be reached on Monday through Friday 7-7 (max flex).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Melanie Tyson /M. T./

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Examiner, Art Unit 3773

June 28, 2009

/(Jackie) Tan-Uyen T. Ho/

Supervisory Patent Examiner, Art Unit 3773